

ST-54T6 ST-62T6

COLOR TELEVISION



Owner's Instructions

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Warning! Important Safety Instructions



CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.



This symbol indicates high voltage is present inside. It is dangerous to make any kind of contact with any inside part of this product.



This symbol alerts you that important literature concerning operation and maintenance has been included with this product.

Note to CATV system installer: This reminder is provided to call CATV, that provides guidelines for proper grounding and, in particular, specifies that the cable ground shall be connected to the grounding system of the building as close to the point of cable entry as practical.

Important: One Federal Court has held that unauthorized recording of copyrighted TV programs is an infringement of U.S. copyright laws. Certain Canadian programs may also be copyrighted and any unauthorized recording in whole or in part may be in violation of these rights.

To prevent damage which may result in fire or electric shock hazard, do not expose this appliance to rain or moisture.

Thank You for Choosing Samsung

Thank you for choosing Samsung! Your new Samsung Projection TV represents the latest in television technology. We designed it with easy-to-use on-screen menus and closed captioning capabilities, making it one of the best products in its class. We are proud to offer you a product that will provide convenient, dependable service and enjoyment for years to come.

Important Safety Information



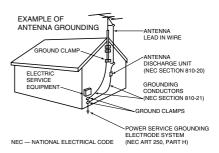
Always be careful when using your TV receiver. To reduce the risk of fire, electrical shock, and other injuries, keep these safety precautions in mind when installing, using, and maintaining your machine.

- Read all safety and operating instructions before operating your TV.
- Keep the safety and operating instructions for future reference.
- Heed all warnings on the TV receiver and in the operating instructions.
- Follow all operating and use instructions.
- Unplug the TV receiver from the wall outlet before cleaning. Use a damp cloth; do not use liquid or aerosol cleaners.
- Never add any attachments and/or equipment without approval of the manufacturer. Such additions can increase the risk of fire, electric shock, or other personal injury.
- Do not use the TV receiver where contact with or immersion in water is a possibility, such as near bath tubs, sinks, washing machines, swimming pools, etc.
- Do not place the TV on an unstable cart, stand, tripod, bracket, or table where it can fall. A falling TV can cause serious injury to a child or adult, and serious damage to the appliance. Use only with a cart, stand, tripod, bracket, or table recommended by the manufacturer or sold with the TV. Follow the manufacturer's instructions when mounting the unit, and use a mounting accessory recommended by the manufacturer. Move the TV and cart with care. Quick stops, excessive force, and uneven surfaces can make the unit and cart unsteady and likely to overturn.



- · Provide ventilation for the TV receiver. The unit is designed with slots in the cabinet for ventilation to protect it from overheating. Do not block these openings with any object, and do not place the TV receiver on a bed, sofa, rug, or other similar surface. Do not place it near a radiator or heat register. If you place the TV receiver on a rack or bookcase, ensure that there is adequate ventilation and that you've followed the manufacturer's instructions for mounting.
- Operate your TV receiver only from the type of power source indicated on the marking label. If you are not sure of the type of power supplied to your home, consult your appliance dealer or local power company.
- Use only a grounded or polarized outlet. For your safety, this TV is equipped with a polarized alternating current line plug having one blade wider than the other. This plug will fit into the power outlet only one way. If you are unable to insert the plug fully into the outlet, try reversing the plug. If the plug still does not fit, contact your electrician to replace your outlet.

- Protect the power cord. Power supply cords should be routed so that they won't be walked on or pinched by objects placed on or against them. Pay particular attention to cords at plugs, convenience receptacles, and the point where they exit from the unit.
- Unplug the TV from the wall outlet and disconnect the antenna or cable system during a lightning storm or when left unattended and unused for long periods of time. This will prevent damage to the unit due to lightning and power-line surges.
- Avoid overhead power lines. An outside antenna system should not be placed in the vicinity of
 overhead power lines or other electric light or power circuits or where it can fall into such
 power lines or circuits. When installing an outside antenna system, be extremely careful to keep
 from touching the power lines or circuits. Contact with such lines can be fatal.
- Do not overload the wall outlet or extension cords. Overloading can result in fire or electric shock.
- Do not insert anything through the openings in the unit, where they can touch dangerous voltage points or damage parts. Never spill liquid of any kind on the TV.
- Ground outdoor antennas. If an outside antenna or cable system is connected to the TV, be sure the antenna or cable system is grounded so as to provide some protection against voltage surges and built-up static charges. Section 810 of the National Electrical Code, ANSI/NFPA No.70-1984, provides information about proper grounding of the mast and supporting structure, grounding of the lead-in wire to an antenna discharge unit, size of grounding conductors, location of antenna discharge unit, connection to grounding electrodes, and requirements for the grounding electrode.



- Do not attempt to service the TV yourself. Refer all servicing to qualified service personnel. Unplug the unit from the wall outlet and refer servicing to qualified service personnel under the following conditions:
 - when the power-supply cord or plug is damaged
 - if liquid has been spilled on the unit or if objects have fallen into the unit
 - if the TV has been exposed to rain or water
 - if the TV does not operate normally by following the operating instructions
 - if the TV has been dropped or the cabinet has been damaged
 - when the TV exhibits a distinct change in performance
- If you make adjustments yourself, adjust only those controls that are covered by the operating instructions. Adjusting other controls may result in damage and will often require extensive work by a qualified technician to restore the TV to normal.
- When replacement parts are required, be sure the service technician uses replacement parts specified by the manufacturer or those that have the same characteristics as the original part. Unauthorized substitutions may result in additional damage to the unit.
- Upon completion of any service or repairs to this TV, ask the service technician to perform safety checks to determine that the TV is in a safe operating condition.

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Chapter One

Your New TV

List of Features

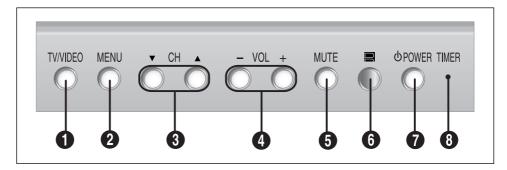
Your Samsung TV was designed with the latest technology. This TV is a high-performance unit that includes the following special features:

- Easy-to-use remote control
- Easy-to-use on-screen menu system
- Automatic timer to turn the TV on and off
- Adjustable picture and sound settings that can be stored in the TV's memory
- Automatic channel tuning for up to 181 channels
- A special filter to reduce or eliminate reception problems
- Fine tuning control for the sharpest picture possible
- A built-in multi-channel sound decoder for stereo and bilingual listening
- Built-in, dual channel speakers (15 watts per channel)
- · A special sleep timer
- Picture-in-Picture
- Headphone jack for private listening

Familiarizing Yourself with The TV

Front Panel Buttons

The buttons on the front panel control your TV's basic features, including the on-screen menu. To use the more advanced features, you must use the remote control.



TV/VIDEO

Press this button to display a menu of all the available signal sources. When the menu appears, use the CH buttons to highlight a particular source, and then press VOL+ to select it.

9 MENU

Press to see an on-screen menu of your TV's features.

③ CH ▼ and CH ▲

Press to change channels. Also press to highlight various items on the on-screen menu.

O VOL - , +

Press to increase or decrease the volume. Also used to select items on the on-screen menu.

6 MUTE

Press to temporarily cut off the sound.

Remote Control Sensor

Aim the remote control towards this spot on the TV.

9 POWER

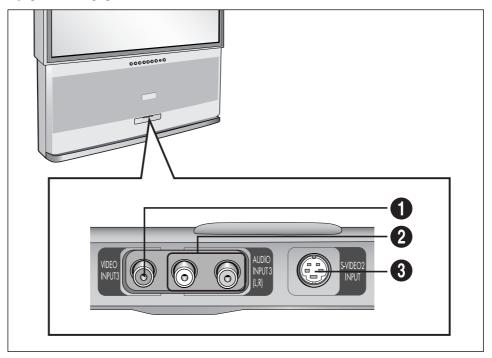
Press to turn the TV on and off.

6 TIMER indicator

When the TV is turned on, the TIMER indicator blinks ten times. This indicator illuminates when the TIMER mode is set to the "On" position after setting the clock and either the On timer or Off timer, with the remote control. Even if the power is turned off, this indicator stays lit. (Clock must be set before using this function.)

Front Panel Jacks

You can use the front panel jacks to connect an A/V component that is used only occasionally, such as a camcorder or video game. (For information on connecting equipment, see pages 2.1 - 2.7.)



AUDIO IN jacks

Used to connect the audio signals from a camcorder or video game.

2 VIDEO IN jack

Used to connect a video signal from a camcorder or a video game.

3 SUPER VIDEO INPUT jack

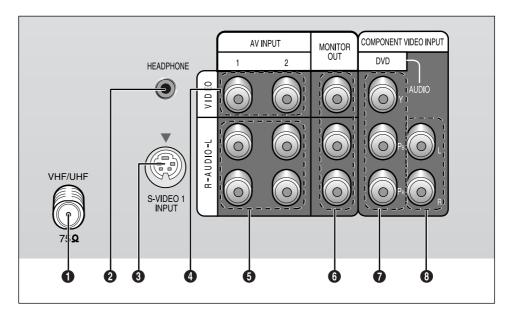
Used to connect an S-Video signal from a camcorder or a video game.

Rear Panel Jacks

Use the rear panel jacks to connect an A/V component that will be connected continuously, such as a VCR or a laserdisc player.

Because there are two sets of input jacks, you can connect two different A/V components (i.e., a VCR and a laserdisc, 2 VCRs, etc.)

For more information on connecting equipment, see pages 2.1 - 2.7.



VHF/UHF

Connect to an antenna or to a cable TV system.

4 WIRELESS HEADPHONES Connect a pair of wireless headphones here (optional)

3 SUPER VIDEO INPUT

S-Video signal from an S-VHS VCR or laserdisc player.

VIDEO INPUTS

Video signals from VCRs, laserdisc players and similar devices (Two sets are available: Video1 and Video2).

6 AUDIO INPUTS

Audio signals from VCRs, laserdisc players and similar devices.

6 AUDIO-VIDEO **MONITOR OUTPUTS**

These audio-video signals are identical to A/V signals being displayed on the big screen. (Typically used as the input signals for a recording VCR.)

Note: The monitor out does not operate in DVD mode.

O DVD INPUT

Connect video from a DVD player.

10 DVD AUDIO INPUT

Connect to the audio output jacks of a DVD play-

Remote Control

You can use the remote control up to about 23 feet from the TV. When using the remote, always point it directly at the TV.

You can also use your remote control to operate your VCR and cable box. See page 4.1 for details

POWER

Turns the TV on and off.

2 ADD/ERASE

Press to add or erase channels in the TV's memory.

O PIP

Activates picture in picture.

O DISPLAY

Press to display the current channel and the audio-video settings.

6 Number buttons

Press to select channels directly on the TV.

6 + 100

Press to select channels over 100. For example, to select channel 121, press "+100," then press "2" and "1."

P.MODE

Adjust the TV picture by selecting one of the preset factory settings (or select your personal, customized picture settings).

S.MODE

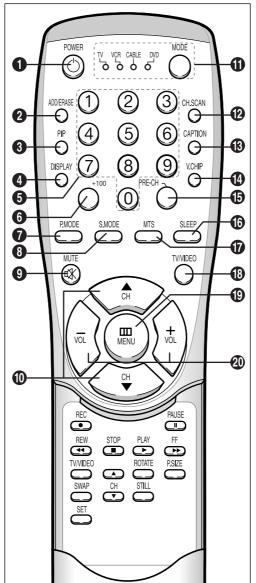
Adjust the TV sound by selecting one of the preset factory settings (or select your personal, customized sound settings).

9 MUTE

Press to temporarily cut off the sound.

⊕ CH and CH▼ (Channel Up/Down)

Press CH▲ or CH▼ to change channels. (Also used to highlight selections on the on-screen menus.)



MODE

Selects a target device to be controlled by the Samsung remote control (i.e., TV, VCR, Cable box, or DVD).

@ CH.SCAN

Press to memorize (scan) the available channels.

® CAPTION

Controls the caption decoder.

1 V.CHIP

Press to set up and activate the parental locks.

(B) PRE-CH

Tunes to the previous channel.

(6) SLEEP

Press to select a preset time interval for automatic shutoff.

MTS (Multichannel Television Stereo)

Press to choose stereo, mono or Separate Audio Program (SAP broadcast).

(B) TV/VIDEO

Press to display all of the available video sources (i.e., Antenna/cable, VCR, DVD, Video1~3 and S-Video 1~2).

10 MENU

Displays the main on-screen menu.

10 VOL -, VOL +

Press increase or decrease the volume. (Also used to make selections on the on-screen menus.)

Remote Control (continued)

② VCR controls

REC

Press to begin recording. (Note: A VCR must be connected.)

PAUSE

Press to pause the tape.

REW (Rewind)

Press to rewind a tape.

STOP

Press to stop a tape in your VCR.

PLAY

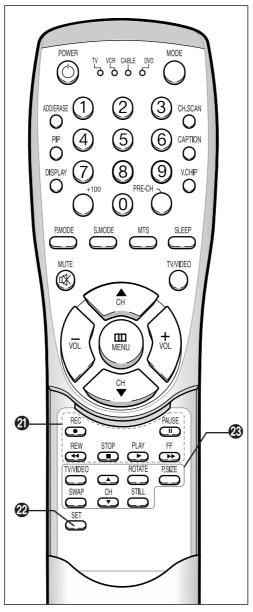
Press to play the tape.

FF (Fast Forward)

Press to fast forward a tape.

@ SET

Used during set up of this Samsung remote control, so that it will work compatibly with other devices (VCR, cable box, etc.)



PIP Controls

TV/VIDEO

Press to select one of the available signal sources for the PIP window.

ROTATE

Press to move the PIP window to any of the four corners of the TV screen.

P.SIZE

Press to make the PIP window larger or smaller.

SWAP

Exchanges the video signal that is currently displayed on the main screen with the signal in the PIP window.

PIP CH

Displays the available channels in sequence. (These buttons change channels in the PIP window only).

STILL

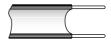
Press to stop the action during a particular scene. Press again to resume normal video.

Chapter Two

Installation

Connecting VHF and UHF Antennas

If your antenna has a set of leads that look like this, see "Antennas with 300-ohm Flat Twin Leads," below.



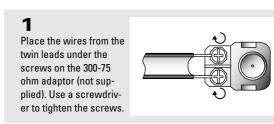
If your antenna has one lead that looks like this, see "Antennas with 75-ohm Round Leads," on page 2.2.

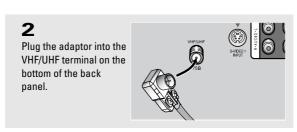


If you have two antennas, see "Separate VHF and UHF Antennas," on page 2.2.

Antennas with 300-ohm Flat Twin Leads

If you are using an off-air antenna (such as a roof antenna or "rabbit ears") that has 300-ohm twin flat leads, follow the directions below.



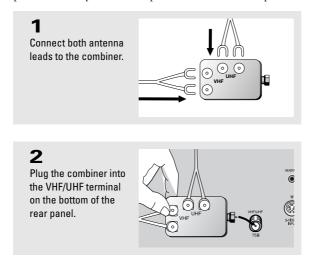


Antennas with 75-ohm Round Leads



Separate VHF and UHF Antennas

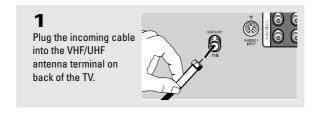
If you have two separate antennas for your TV (one VHF and one UHF), you must combine the two antenna signals before connecting the antennas to the TV. This procedure requires a an optional combiner-adaptor (available at most electronics shops).



Connecting Cable TV

To connect to a cable TV system, follow the instructions below.

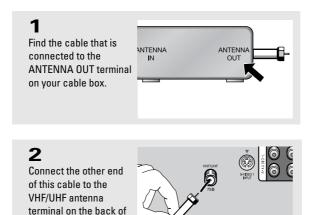
Cable without a Cable Box



■ Because this TV is cable-ready, you do not need a cable box to view unscrambled cable channels.

the TV.

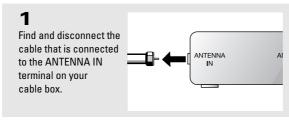
Connecting to a Cable Box that Descrambles All Channels



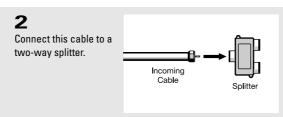
■ This terminal might be labeled "ANT OUT," "VHF OUT," or simply,

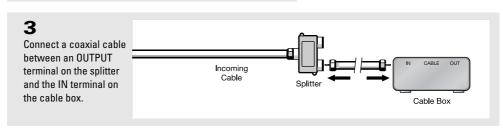
Connecting to a Cable Box that Descrambles Some Channels

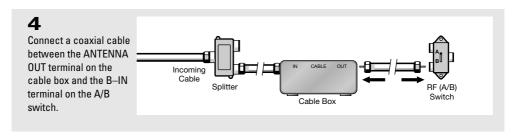
If your cable box descrambles only some channels (such as premium channels), follow the instructions below. You will need a two-way splitter, an RF (A/B) switch, and four lengths of coaxial cable. (These items are available at most electronics stores.)

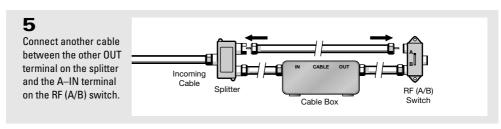


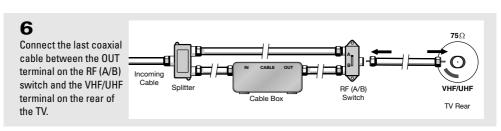
■ This terminal might be labeled "ANT IN," "VHF IN," or simply, "IN."







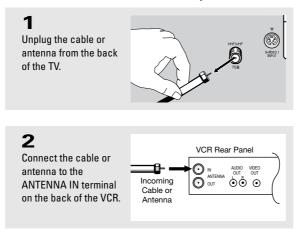


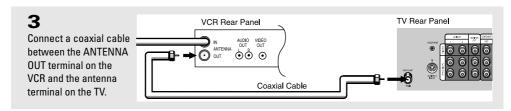


After you've made this connection, set the A/B switch to the "A" position for normal viewing. Set the A/B switch to the "B" position to view scrambled channels. (When you set the A/B switch to "B," you will need to tune your TV to the cable box's output channel, which is usually channel 3 or 4.)

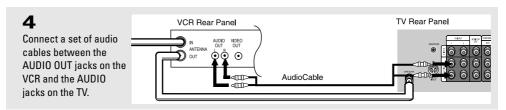
Connecting a VCR

These instructions assume that you have already connected your TV to an antenna or a cable TV system (according to the instructions on pages 2.1-2.3). Skip step 1 if you have not yet connected to an antenna or a cable system.

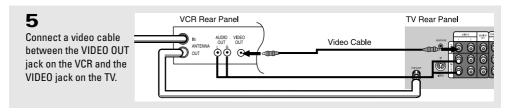




A coaxial cable is usually included with a VCR. (If not, check your local electronics store).



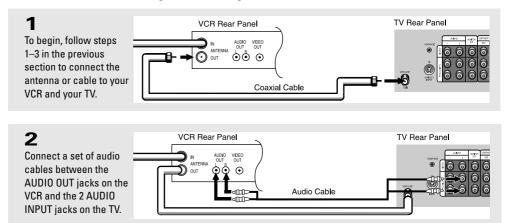
If you have a "mono" (non-stereo) VCR, use the Y-connector to hook up to the left and right audio input jacks of the TV. If your VCR is stereo, you must connect two cables.



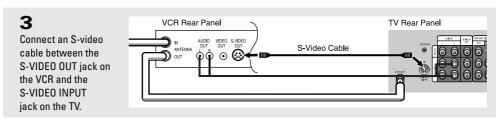
Follow the instructions in "Viewing a VCR or Camcorder Tape" to view your VCR tape.

Connecting an S-VHS VCR

Your Samsung TV can be connected to an S-Video signal from an S-VHS VCR. (This connection delivers a better picture as compared to a standard VHS VCR.)



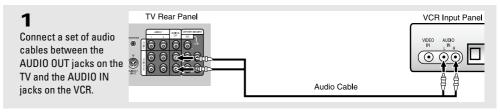
Make sure the jacks you are using are underneath the number "2."



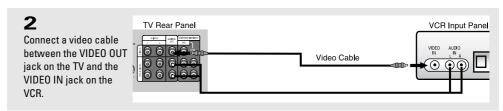
An S-video cable is usually included with an S-VHS VCR. (If not, check your local electronics store.)

Connecting a Second VCR to Record from the TV

Your TV can send out signals of its picture and sound to be recorded by a second VCR. To do this, connect your second VCR as follows:



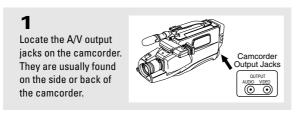
(The VCR input jacks might be either on the front or on back of the VCR.)

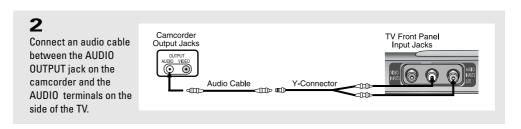


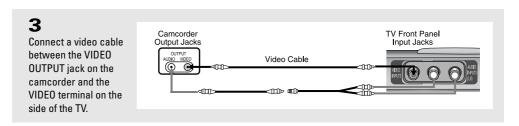
Refer to your VCR's instructions for more information about how to record using this kind of connection.

Connecting a Camcorder

The front/side panel jacks on your TV make it easy to connect a camcorder to your TV. They allow you to view the camcorder tapes without using a VCR. (Also see "Viewing a VCR or Camcorder Tape" on page 3.14)

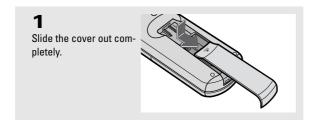


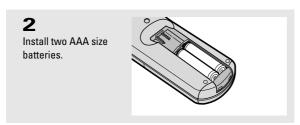




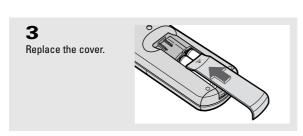
The audio-video cables shown here are usually included with a Camcorder. (If not, check your local electronics store.) If your camcorder is stereo, you need to connect a set of two cables.

Installing Batteries in the Remote Control





■ Make sure to match the "+" and "—" ends of the batteries with the diagram inside the compartment.



■ Remove the batteries and store
them in a cool, dry place if you won't
be using the remote control for a
long time.

The remote control can be used up to about 23 feet from the TV.

(Assuming typical TV usage, the Batteries last for about one year.)

Chapter Three

OPERATION

Turning the TV On and Off

Press POWER.

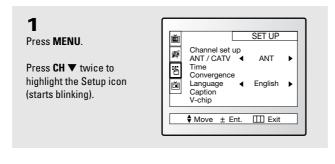
You can also use the POWER button on the front panel.

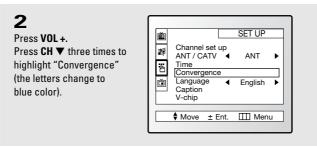
Adjusting Basic Convergence

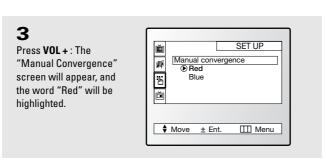
If the color appears spread out or "smeared" on the screen, the convergence probably needs alignment. Be sure to use the remote control for the convergence adjustments.

(The Convergence Adjustment cannot be made by using the control buttons on the front panel.)

First steps:





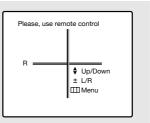


continued...

Adjust Red Convergence

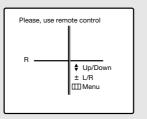
4

While "Red" is highlighted (letters are blue color), press the VOL+ button: A crosshair pattern will appear on the screen. If either a vertical or a horizontal red line is visible, then the convergence needs alignment.



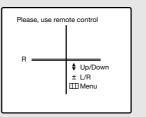
5

If a horizontal red line is visible, use CH▲ and CH▼ buttons to move the line so that it is superimposed on the horizontal centerline (i.e., make a single horizontal line that is as white as possible.)

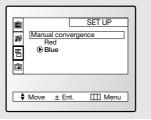


6

If a vertical red line is visible, use the VOL + and VOL - buttons to move the line so that it is superimposed on vertical-center line (i.e., make a single vertical line that is as white as possible.)



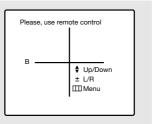
At this point, the Red convergence is correctly adjusted. Press MENU, then press the CH▼ button once to highlight the word "Blue."



Adjust Blue Convergence

8

While the word "Blue" is highlighted, press the VOL+ button to adjust the blue convergence. When the crosshair pattern appears, use CH▲ and CH▼ and VOL + - to converge the blue line (same procedure as in steps 1~7, above).

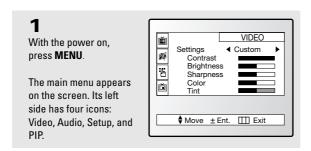


9

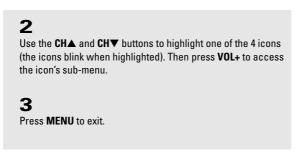
After the blue convergence is correctly adjusted, press **MENU** four times to exit all the menus.

Viewing the Menus and On-Screen Displays

Viewing the Menus



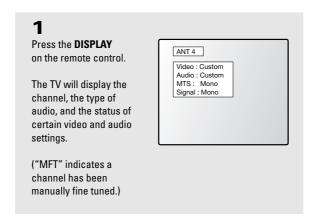
The on-screen menus disappear from the screen after about thirty seconds.



■ You can also use the MENU. CHANNEL, and VOLUME buttons on the control panel of the TV to make selections.

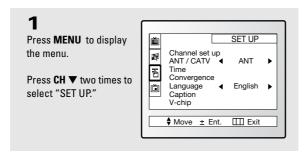
Viewing the Display

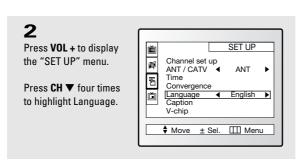
The display identifies the current channel and the status of certain audio-video settings.



■ The on-screen displays disappear after about ten seconds.

Selecting a Menu Language





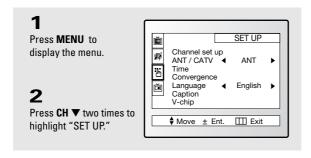
3Press **VOL** + to select the appropriate language: English, Spanish, or French. **4**Press **MENU** twice to exit.

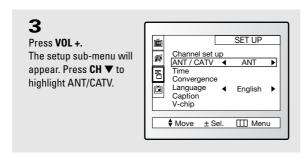
Memorizing the Channels

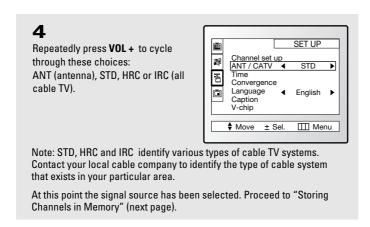
Your TV can memorize and store all of the available channels for both "off-air" (antenna) and cable channels. After the available channels are memorized, use the CH ▲ and CH ▼ buttons to scan through the channels. This eliminates the need to change channels by entering the channel digits. There are three steps for memorizing channels: selecting a broadcast source, memorizing the channels (automatic) and adding and deleting channels (manual).

Selecting the Video Signal-source

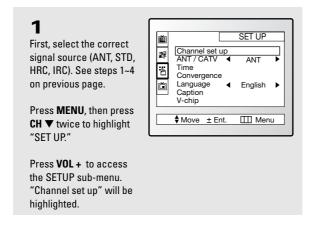
Before your television can begin memorizing the available channels, you must specify the type of signal source that is connected to the TV (i.e., an antenna or a cable system).

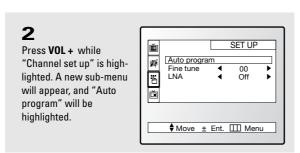


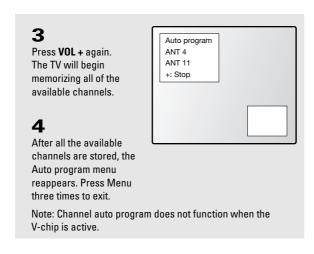




Storing Channels in Memory (Automatic Method)







■ The TV automatically cycles through all of the available channels and stores them in memory. This takes about one to two minutes. Press VOL+ at any time to interrupt the memorization process and return to the Setup menu.

Adding and Erasing Channels (Manual Method)



Use the number buttons to directly select the channel that will be added or erased.

Press ADD/ERASE:

Repeatedly pressing this button will alternate between "Channel added" and "Channel erased."

Press MENU to exit.

You can view any channel (including an erased channel) by using the number buttons on the remote control.

Changing Channels

Using the Channel Buttons



Press the CH ▲ or CH ▼ button to change channels.

When you press $CH \triangle$ or $CH \nabla$, the TV changes channels in sequence. You will see all the channels that the TV has memorized. (The TV must have memorized at least three channels.) You will not see channels that were either erased or not memorized.

Directly Accessing Channels

Use the number buttons to quickly tune to any channel.

Press the number buttons to go directly to a channel. For example, to select channel 27, press "2," then "7." The TV will change channels when you press the second number.

When you use the number buttons, you can directly select channels that were either erased or not memorized.

To select a channel over 100, press the +100 button. (For channel 122, press "+100," then "2," then "2.")

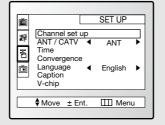
To change to single-digit channels (0–9) faster, press "0" before the single digit. (For channel "4," press "0," then "4.")

Setting the Clock

Press the **MENU** button to display the on-screen

2

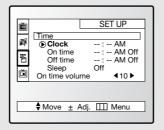
Press CH ▼ twice to highlight "SET UP." Press VOL +.



3

Press CH ▼ twice to highlight Time menu.

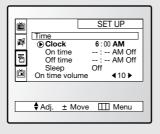
Press VOL +: The Time menu will appear on the screen, and "Clock" will be highlighted (blue color).



4

Press VOL + again (the hours digits will start blinking). Press CH ▼ repeatedly until the correct hour appears.

After the hour is entered, press VOL + (at this point the minutes digits will start blinking).



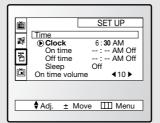
■ When selecting the hours, be sure to select the proper time of day (AM or PM).

You can change the hours by pressing $CH \triangle or CH \nabla$ repeatedly (or by holding down either of these buttons).



Press the CH ▲ or CH ▼ button to select the correct minutes.

After selecting the correct minutes, press VOL +.



Press MENU three times to exit.

The time will appear every time you press DISPLAY.

Adjusting the Volume

Press **VOL +** or – **VOL** to increase or decrease the volume.

Using Mute

At any time, you can temporarily cut off the sound using the Mute button.

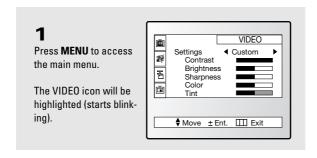
Press MUTE and the sound cuts off.

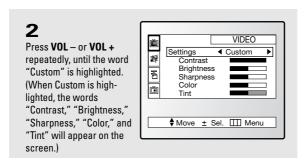
The word "Mute" will appear in the lower-left corner of the

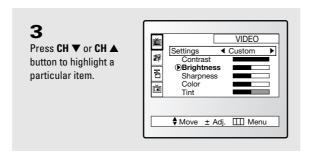
To turn mute off, press MUTE again, or simply press either the **VOL** – or **VOL** + button.

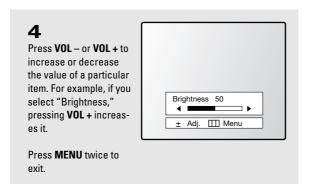
Customizing the Picture

You can use the on-screen menus to change the contrast, brightness, tint, color, and sharpness according to personal preference. (Alternatively, you can use one of the "automatic" settings. See next page.)





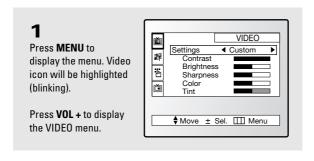


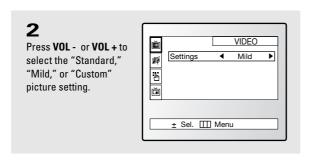


■ After adjusting an item, the gauge will automatically disappear (after about 5 seconds).

Using Automatic Picture Settings

Your Samsung TV has two automatic picture settings ("Standard" and "Mild") that are preset at the factory. You can activate either Standard or Mild by pressing P.Mode (or by making a selection from the menu). Or, you can select "Custom" which automatically recalls your personalized picture settings.



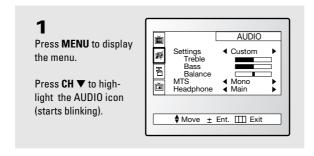


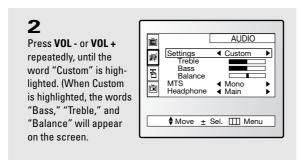


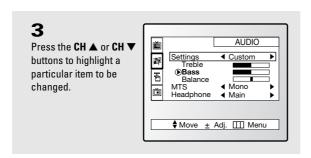
- Choose Standard for the standard factory settings.
- Choose Mild ("Mild Contrast") when viewing the TV in low light, or when playing video games.
- Choose Custom if you want to adjust the settings accordings to personal preference (see "Customizing the Picture, page 3.10).

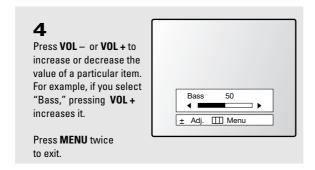
Customizing the Sound

You can use the on-screen menus to adjust the bass, treble, and balance according to individual preference. (Alternatively, you can use one of the "automatic" settings. See next page.)





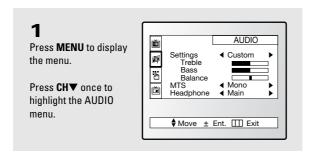


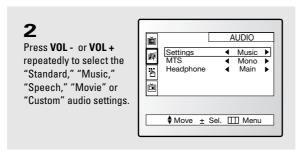


■ When you are finished adjusting an item, wait about 10 seconds. The gauge will disappear and the Audio menu will return.

Using Automatic Sound Settings

Your TV has four automatic sound settings ("Standard," "Music," "Speech," and "Movie") that are preset at the factory. You can activate any of them by pressing the S.MODE button (or by making a selection from the on-screen menu). Or, you can select "Custom," which automatically recalls your personalized sound settings.







- Choose Standard for the standard factory settings.
- Choose *Music* when watching music videos or concerts.
- Choose *Speech* when watching a show that is mostly dialogue (i.e., news).
- Choose Movies when watching movies.
- Choose Custom to recall your personalized settings.

Viewing a VCR or Camcorder Tape

You must select the appropriate mode in order to view the VCR or Camcorder signal on the TV.

1

Make sure that the remote control is controlling the TV set. (Press the **MODE** button and make sure that the "TV" LED is illuminated.)

2

Press **TV/VIDEO** on the remote control, and the following onscreen menu will appear:

TV/Video Menu

ANT/CATV

Video1

Video2

Video3

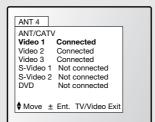
S-Video1

S-Video2 DVD



Use the CH▲ or CH▼ button to highlight a particular signal source, and then press VOL+ to activate it.

Press TV/VIDEO to exit.



When you press the TV/Video button, the on-screen display identifies all the active video sources (and their corresponding input jacks):

| Select | Video jack | Audio jack | |
|-----------|-------------------------|-----------------|--|
| Video 1 | Video 1 (rear panel) | Audio 1 "L+R" | |
| Video 2 | Video 2 (rear panel) | Audio 2 "L+R" | |
| Video 3 | Video 3 (front panel) | Audio 3 "L+R" | |
| S-Video 1 | S-Video 1(rear panel) | Audio 2 "L+R" | |
| S-Video 2 | S-Video 2 (front panel) | Audio 3 "L+R" | |
| DVD | DVD-rear | DVD Audio "L+R" | |

Chapter Four

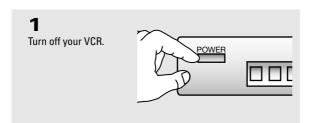
SPECIAL FEATURES

Customizing Your Remote Control

Your Samsung TV comes equipped with a "universal" remote control. In addition to controlling the TV, the universal remote can also operate a VCR, DVD and a cable box (even if your VCR and cable box are made by manufacturers other than Samsung).

Note: The remote control might not be compatible with DVD Player, VCR, Cable box and others manufactured by another company.

Setting Up Your Remote Control to Operate Your VCR



2

Press the MODE button and make sure that the VCR LED is illuminated.

■ The remote control has four "modes": "TV," "VCR", "CABLE" and "DVD." Press the "MODE" button to switch the remote control to the "VCR" mode.

On your Samsung remote control, press SET.

4

Enter 3 digits of the VCR code listed on the next page for your brand of VCR.

Press **POWER** on the remote control. Your VCR should turn on. If your VCR turns on, your remote control is now set correctly.

Once your remote control is set up, press the MODE button any time you want to use the remote to operate your VCR.

■ Make sure you enter 3 digits of the code, even if the first digit is a "0."

If more than one code listed, try the

■ If your VCR does not turn on, repeat steps 2, 3, and 4, but try one of the other codes listed for the brand of your particular VCR.

If no other codes are listed, try each code, 000 through 089.

■ When your remote control is in the "VCR" mode, the volume buttons still control your TV's volume.

When your remote is in the "TV" mode, the VCR control buttons (PLAY, PAUSE, etc.) will still operate your VCR.

✓ Set the DVD mode using the same methods as above.

VCR Codes

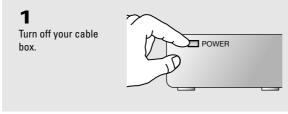
| Admiral 006, 079 | KLH | 073 | RCA | 000, 005, 007, 008, 028, |
|---|-----------------|------------------------|------------|------------------------------|
| Aiwa 015 | LG | 009, 014, 046, 060 | | 035, 037, 054, 069 |
| Akai 017, 022, 023, 027, 030 | Lloyd | 015 | Samsung | 007, 013, 022, 032, 042, 077 |
| Audio Dynamics 014, 016 | Logik | 031 | Sansui | 016 |
| Bell & Howell 002 | LXI | 015 | Sanyo | 002, 012 |
| Broksonic 010 | Magnavox | 008, 029, 053, 056 | Scott | 013, 041, 049, 068 |
| Candle 007, 009, 013, 045, 046, 052 | Marantz | 002, 008, 014, 016, | Sears | 002, 005, 009, 012, 018, |
| Cannon 008, 053 | | 029, 030, 046, 061 | | 019, 035, 043, 048 |
| Citizen 007, 009, 013, 045, 046, 052 | Marta | 009 | Sharp | 006, 027, 039, 045 |
| Colortyme 014 | MEI | 008 | Shintom | 017, 026, 031, 055 |
| Craig 007, 012 | Memorex | 008, 009, 012, 015 | Signature | 015 |
| Curtis-Mathes 000, 007, 008, 014, | MGA | 027 | Sony | 017, 026, 038 |
| 015, 046, 053, 064, 067 | Midland | 032 | Sylvania | 008, 015, 029, 053, 056 |
| Daewoo 013, 045, 076 | Minota | 005, 035 | Symphoni | c 015 |
| DBX 014, 016 | Mitsubishi | 005, 027, 035, 040 | Tandy | 002, 015 |
| Dimensia 000 | Montgomery wa | rd 006 | Tashiko | 009 |
| Dynatech 015 | MTC | 007, 015 | Tatung | 030 |
| Electrohome 027 | Multitech | 007, 015, 031, 032 | Teac | 015, 030, 069 |
| Emerson 008, 009, 010, 013, 015, 020, 023, 027, | NEC 002, 014, 0 | 16, 030, 046, 061, 064 | Technics | 008 |
| 034, 041, 042, 047, 049, 057, 062, 065, 067, 068, 070 | Optimus | 006 | Ternika | 008, 009, 015, 021 |
| Fisher 002, 012, 018, 019, 043, 048, 058 | Panasonic | 008, 053, 075, 077 | TMK | 067 |
| Funai 015 | Pentax | 005, 035 | Toshiba | 005, 013, 019, 048, 049 |
| GE 000, 007, 008, 032, 053 | Pentex Reserch+ | 046 | Totevision | . 007, 009 |
| Go Video 007 | Philco | 008, 029, 053, 056 | Unitech | 007 |
| Harman Kardon 014 | Philips | 008, 029 | Vector Res | search 014, 016 |
| Hitachi 005, 015, 035, 036 | Pioneer | 005, 016, 033, 050 | Victor | 016 |
| Instant Replay 008 | Portland | 044, 045, 052 | Video Con | cepts 014, 016 |
| JC Penney 002, 005, 007, 008, 014, | ProScan | 000 | Videosonio | 007 |
| 016, 030, 035, 051, 053 | Quartz | 002 | Wards | 005, 006, 007, 008, 009, |
| JCL 008, 002, 014, 016, 030, 046 | Quasar | 008, 053 | (| 012, 013, 015, 027, 031, 035 |
| JVC 002, 014, 088, 089 | Radio Shack/Rea | list 002, 006, 008, | Yamaha | 002, 014, 016, 030, 046 |
| Kenwood 002, 014, 016, 030, 046 | 009, 012, 01 | 5, 019, 027, 045, 053 | Zenith | 011, 017, 026, 079 |

DVD Codes

| Philips | 001 |
|-----------|-----|
| Proscan | 002 |
| RCA | 002 |
| Toshiba | 003 |
| Panasonic | 004 |
| Sony | 008 |
| Samsung | 000 |

Note: The remote control might not be compatible with DVD Player, VCR, Cable box and others manufactured by another company.

Setting Up Your Remote Control to Operate Your Cable Box



continued...

SPECIAL FEATURES

Press the MODE button and make sure that the CABLE LED is illuminated.

■ The remote control has four "modes": "TV," "VCR," "CABLE" and "DVD."

Press the "MODE" button to switch the remote control to the "Cable" mode.

3

On your Samsung remote control, press SET.

4

Enter 3 digits of the cable box code listed below for your brand of cable box.

■ Make sure you enter 3 digits of the code, even if the first digit is a "0." (If more than one code listed, try the first one.)

5

Press POWER. Your cable box should turn on. If your cable box turns on, your remote control is now "set up" correctly.

- If your cable box does not turn on, repeat steps 2, 3, and 4, but try one of the other codes listed for your particular brand of cable box. (If no other codes are listed, try each cable box code, 000 through 077.)
- 6 Once your remote control is set up, press the MODE button any time you want to use the remote to operate your cable box.
- When your remote control is in the "CABLE" mode, the volume buttons still control your TV's volume. Also, the VCR control buttons (PLAY, PAUSE, etc.) will still operate your VCR.

Cable Box Codes

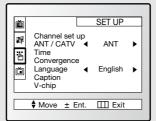
| Anvision 007, 008 | NSC 009 | Signature 046 |
|-----------------------------------|----------------------------------|------------------------------------|
| Cablestar 007, 008 | Oak 016, 038 | Sprucer 027 |
| Eagle 007, 008 | Osk Sigma 016 | Starcom 046 |
| Eastern Int. 002 | Panasonic 003, 027, 039, 061, | Stargate 2000 058 |
| General Instrument 046 | 073, 074 | Sylvania 011, 059 |
| GI 004, 005, 015, 023, 024, | Philips 007, 008, 019, 021, 026, | Texscan 011, 059 |
| 025, 030, 036, 067, 068, 069 | 028, 029, 032, 033, 040, 041 | Tocom 017, 021, 049, 050, 055, 073 |
| Hamlin 003, 012, 013, 034, 048 | Pioneer 018, 020, 044, 074, 077 | Unika 031, 032, 041 |
| Hitachi 037, 043, 046 | Randtek 007, 008 | Universal 051, 052 |
| Jerroid 004, 005, 015, 023, 024, | RCA 000, 027, 066 | Viewster 007, 008, 019, 021, 026, |
| 025, 030, 036, 046, 062, 065 | Regal 003, 012, 013 | 028, 029, 032, 033, 040, 041 |
| Macom 037, 043 | Regency 002, 033 | Warner Amex 044 |
| Magnavox 007, 008, 019, 021, | SA 070, 071, 072 | Zenith 014, 042, 057, 061, |
| 026, 028, 029, 032, 033, 040, 041 | Samsung 044, 003, 022, 063, 064 | 075, 076 |

Note: The remote control might not be compatible with DVD Player, VCR, Cable box and others manufactured by another company.

sub-menu.

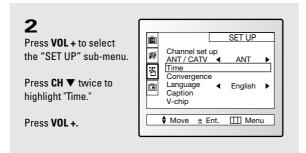
Setting the On/Off Timer

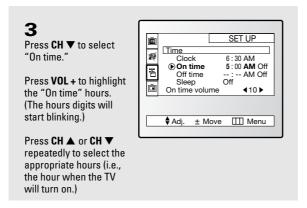




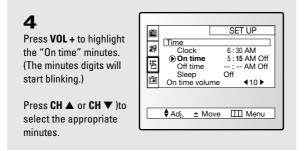
■ Before using the timer, you must set the TV's clock. (See "Setting the Clock" on page 3.8)

When any of the timers are set, the "Timer" LED will illuminate (front panel of TV).

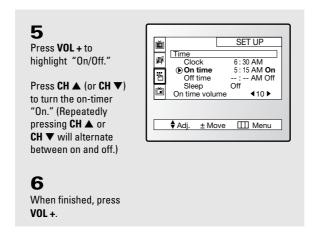




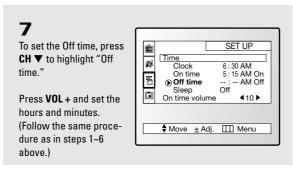
■ When you set the hours, make sure the correct time of day (AM or PM) appears to the left of the hour.



continued...



■ To deactivate the "On time," select "Off" during this step.



8

When finished setting the timer, press **MENU** three times to exit.

Setting the Sleep Timer

The sleep timer automatically shuts off the TV after a preset time (from 10 to 360 minutes).

Press the **SLEEP** button on the remote control.

Press **SLEEP** repeatedly until the appropriate time interval appears (any of the preset values from "Off" to "360").

■ After about 5 seconds, the sleep display will disappear from the screen, and the time interval will be set.

Viewing Closed Captions

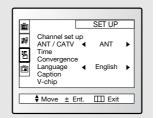
Your TV decodes and displays the closed captions that are broadcast with certain TV shows. These captions are usually subtitles for the hearing impaired or foreign-language translations. All VCRs record the closed caption signal from television programs, so home-recorded video tapes also provide closed captions. Most pre-recorded commercial video tapes provide closed captions as well. Check for the closed caption symbol in your television schedule and on the tape's packaging: CC

Note: The Caption feature does not work with DVD signals.



Press $CH \lor two times to select the "SET UP" menu.$

Press VOL+.

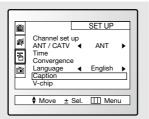


■ Quick way to access captions menu: Simply press the Caption button on the remote control.



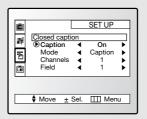
Press **CH** ▼ five times to select the "Caption" menu.

Press **VOL+** to open the Caption menu.



3

Press **VOL**+ or **VOL** – to turn closed captioning on/off.

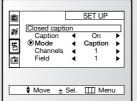


■ Misspellings and unusual characters sometimes occur during closed caption transmissions, especially those of live events. There may be a small delay before captions appear when you change channels. These are not malfunctions of the TV.



Press **CH** ▼ to highlight "Mode."

Press **VOL** – or **VOL** + to select "Caption" or "Text."



▼ Move ±

■ In caption mode, captions appear at the bottom of the screen, and they usually cover only a small portion of the picture.

In text mode, information unrelated to the program, such as news or weather, is displayed. Text often covers a large portion of the screen.

■ Different channels and fields display different information: Field 2 carries additional information that supplements the information in Field 1. (For example, Channel 1 may have subtitles in English, while Channel 2 has subtitles in Spanish.)

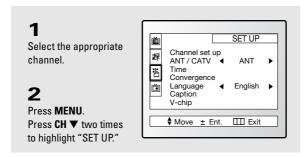
5

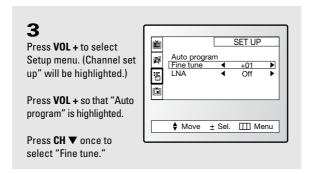
Depending on the particular broadcast, it might be necessary to make changes to "Channels" and "Field":

Use the $CH \triangle$, $CH \nabla$, VOL + and VOL - buttons to make the changes. (Follow the same procedure as in steps $3\sim4$ above.) Press **MENU** three times to exit.

Fine Tuning Channels

Use fine tuning to manually adjust a particular channel for optimal reception.





4

Press the VOL - and VOL + buttons to adjust the fine tuning.

■ After you adjust the fine tuning, the letters "MFT" will appear when you press DISPLAY while watching this channel.

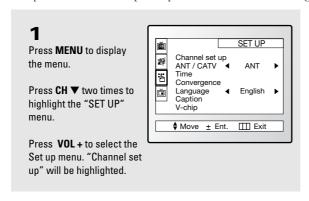
■ Press the MENU button to resume normal viewing.

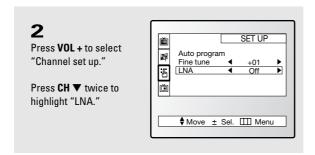
5 To store the fine tuning setting in the TV's memory, press $\mathbf{CH} \triangleq$. (A yellow-heart icon will appear.)

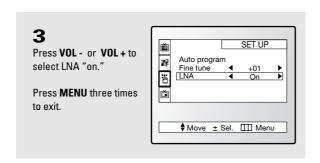
To reset the fine tuning to "00," press $\mathbf{CH} \ lacktriangledown$.

LNA (Low Noise Amplifier)

If the TV is operating in a weak-signal area, sometimes the LNA function can improve the reception (a low-noise preamplifier boosts the incoming signal).





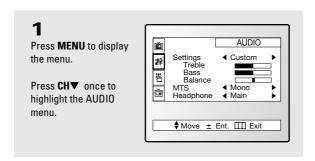


■ Pressing VOL - or VOL + will alternate between "On" and "Off."

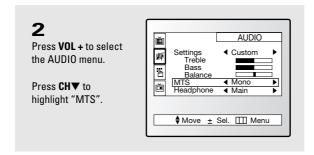
Special Audio Options: MTS and Headphones

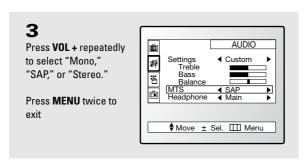
Choosing a Multi-Channel Sound (MTS) Soundtrack

Depending on the particular program being broadcast, you can listen to stereo, mono, or a Separate Audio Program. (SAP audio is usually a foreign-language translation. Sometimes SAP has unrelated information like news or weather.)



■ Quick way to access the MTS menu: Just press "MTS" on the remote control.





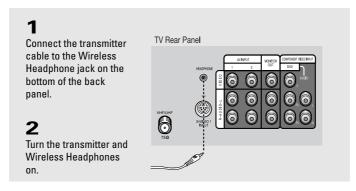
The text at the bottom of the menu tells you if the incoming audio is stereo, SAP, or mono.

- Choose *Stereo* for channels that are broadcasting in stereo.
- Choose Mono for channels that are broadcasting in mono, or if you are having difficulty receiving a stereo signal.
- Choose SAP to listen to the Separate Audio Program, which is usually a foreign-language translation.

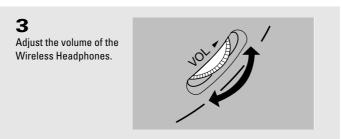
You can also change the MTS setting by pressing the "MTS" button on the remote control. (When you change channels, MTS is set to "Stereo" automatically. To listen in 'SAP' or 'Mono,' change the MTS setting.)

Using Wireless Headphones

The wireless headphone option is especially useful when simultaneously watching the main screen and the PIP window.

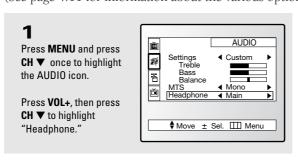


■ Note: Wireless headphones must be purchased separately.

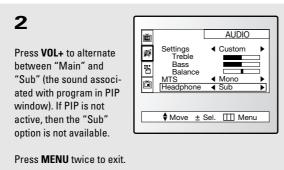


Setting up Wireless Headphones with Picture-in-Picture

(See page 4.11 for information about the various options for picture-in-picture.)



■ Note: The "Headphone" option is active only when the PIP window is active.

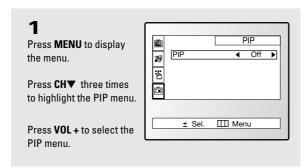


■ Notes: If there is an obstacle between the transmitter and the Wireless Headphones, the sound may be affected. For additional details, see your Wireless Headphones instruction book.

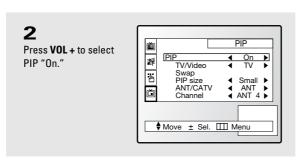
Viewing Picture-in-Picture

You can use the PIP feature to simultaneously to watch two video sources. Note: The PIP feature does not work with DVD signals.

Activating Picture-in-Picture



■ Quick way to access the PIP menu: Simply press the PIP button on the remote control.



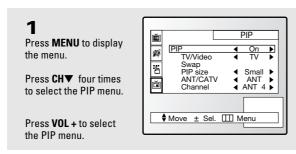
■ If you turn TV off while watching and turn it on again, the PIP window will disappear.

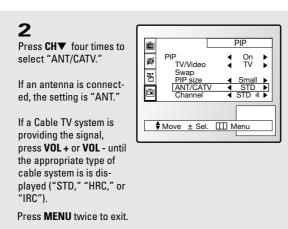


Press MENU twice to exit.

Note: Picture-in-Picture does not function when the V-chip is active.

Selecting a Signal Source (Antenna or Cable) for PIP





Selecting a Signal Source (External A/V) for PIP

Press TV/VIDEO repeatedly to cycle through all of the available signal sources:

"TV," "Video 1," "Video 2," "Video 3," "S-Video 1," and "S-Video 2."

■ For more information about external A/V components and signals, see "Viewing a VCR or Camcorder Tape" on page 3.14. If you select "TV", the PIP image is the same as the main image.

Swapping the Contents of the PIP image and Main image

When you press the SWAP button: The image in the PIP window will appear on the main screen, and vice versa.

Changing the PIP Channel

Press PIP CH▲ or CH▼ to change the channel that appears in the PIP window.

Changing the Location (Rotating) the PIP Window

When you press the ROTATE button repeatedly, the PIP window moves from corner to corner on the TV screen.

Freezing the PIP Image

Press STILL to stop the action in a particular scene. Press STILL again to resume normal video.

Changing the Size of the PIP Window

Press P.SIZE to alternate between a smaller and larger PIP window.

Scanning the Available Channels

This procedure scans all of the available channels and then stores them in memory.

Press CH.SCAN, and the memorized channels will appear in sequence for 2 to 3 seconds per channel. Press CH.SCAN again to stop the scanning process.

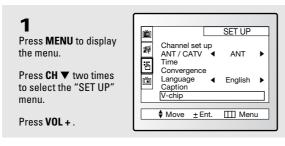
When CH.SCAN stops, the viewing mode will return to its original setting.

Using the V-Chip

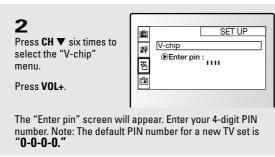
The V-Chip feature automatically locks out programming that is deemed inappropriate for children. The user must first enter a PIN (personal ID number) before any of the V-Chip restrictions can be set up or changed.

Note: When the V-chip feature is active, the PIP and channel-auto program features do not function.

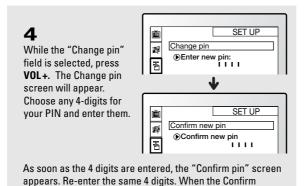
Setting Up Your Personal ID Number (PIN)



■ Quick way to access the V-Chip menu: Simply press the V.CHIP button on the remote control.



SET UP After entering a valid PIN 垂 V-chip mode number, the "V-chip mode" V-chip lock **∢** No ▶ screen will appear. Press TV guidelines Ь MPAA rating CH ▼ three times and high-Change pin light "Change pin." (Note: When a particular field is highlighted, its color



screen disappears, your PIN has been memorized.

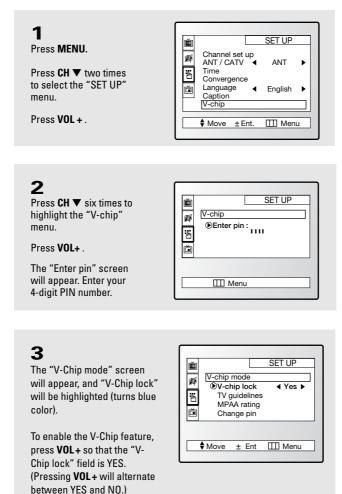
■ Note: If you forget the PIN, press the remote-control keys in the following sequence, which resets the pin to 0-0-0-0:

POWER OFF \rightarrow MUTE \rightarrow 8 \rightarrow 2 \rightarrow 4 → POWER ON.

turns BLUE.)

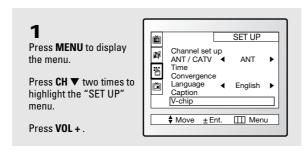
Press MENU to exit.

How to Enable/Disable the V-Chip



How to Set up Restrictions Using the "TV guidelines"

First, set up a personal identification number (PIN), and enable the V-Chip. (See previous section.) Parental restrictions can be set up using either of two methods: The TV guidelines or the MPAA rating.



2

Press **CH** ▼ six times to highlight the "V-chip" menu.

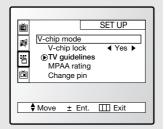
Press VOL+.

The "Enter pin" screen will appear. Enter your 4-digit PIN number.



3

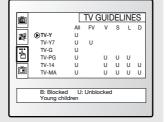
The "V-chip mode" screen will appear. Press the CH ▼ button, and highlight the field for "TV Guidelines." (Note: When a particular field is highlighted, its color turns BLUE.)



4

Press **VOL+**. The "TV guidelines" screen will appear. Press the **CH** ▲, **CH** ▼ buttons to highlight one of the six age-based categories:

| TV-Y | Young children |
|-------|---------------------|
| TV-Y7 | Children 7 and over |
| TV-G | General audience |
| TV-PG | Parental guidance |
| TV-14 | Viewers 14 and over |
| TV-MA | Mature audience |



■ Note: These categories consist of two separate groups: TV-Y and TV-Y7 (young children through age 7), and TV-G through TV-MA (everybody else). The TV-Y and TV-Y7 categories are colored green.

The restrictions for these two groups work independently: If a household includes very young children as well as young adults, the TV guidelines must be set up separately for each age group. (See next step.)

5

At this point, one of the TV-Ratings is highlighted (blue color).

Press the **VOL+** button: Depending on your existing setup, a letter "U" or "B" will start blinking. (U= Unblocked, B= Blocked)

While the "U" or "B" is blinking, press the CH ▲ or CH ▼ button to block or unblock the category.

Press MENU once to save the TV guidelines. A TV-Rating will be highlighted (BLUE), and no letters will blink. To exit this screen, press MENU again. To select a different TV-Rating, press CH ▲ or CH ▼ and then repeat the process.

Note 1: The TV-Y7, TV-PG, TV-14 and TV-MA have additional options. See the next step to change any of the following sub-ratings:

FV: Fantasy violence

D: Dialog

L: L

S: Sexual situation

V: Violence

Note 2: The V-Chip will automatically block certain categories that are "more restrictive." For example, if you block "TV-Y" category, then TV-Y7 will automatically be blocked. Similarly, if you block the TV-G category, then all the categories in the "young adult" group will be blocked (TV-G, TV-PG, TV-14 and TV-MA). The sub-ratings (D, L, S, V) work together similarly. (See next section.)

6

How to set the FV, D, L, S and V sub-ratings.

First, highlight one of these TV-Ratings; TV-Y7, TV-PG, TV-14 or TV-MA (See Step 4, on previous page).

Next, while the TV-Rating is highlighted (BLUE), repeatedly press the VOL+ button. This will cycle through the available sub-ratings (FV,L, S, D or V).

A blinking letter ("U" or "B") will be displayed for each sub-rating. While the "U" or "B" is blinking, press CH ▲ or CH ▼ to change the sub-rating.

Press MENU once to save the TV guidelines. A TV-Rating will be highlighted (BLUE), and no letters will blink. To exit this screen, press MENU again. To select a different TV-Rating, press CH ▲ or CH ▼ and then repeat the process.

Note: The V-chip will automatically block certain categories that are "More restrictive". For example, if you block "L" sub-rating in TV-PG, then the "L" sub-ratings in TV-14 and TV-MA will automatically be blocked.

Press the MENU button three times to clear all the screens. (Or proceed to the next section, and set up additional restrictions based on the MPAA codes).

How to Set up Restrictions using the MPAA Ratings: G, PG, PG-13, R, NC-17, X

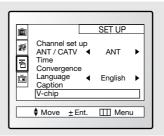
The MPAA rating system uses the Motion Picture Association of America (MPAA) system, and its main application is for movies. (Eventually, movie videocassettes will be encoded with MPAA ratings.) When the V-Chip lock is on, the TV will automatically block any programs that are coded with objectionable ratings (either MPAA or TV-Ratings).



Press **MENU** to display the menu.

Press CH ▼ two times to highlight the "SET UP" menu.

Press VOL + .



Press CH ▼ six times to highlight the "V-chip" menu.

Press VOL+.

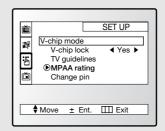
The "Enter pin" screen will appear. Enter your 4-digit PIN number.



3

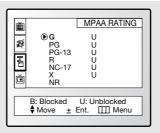
The "V-chip mode" screen will appear.

Press the CH ▼ button twice, and highlight "MPAA rating."



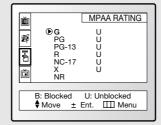
4

While "MPAA rating" is highlighted, press the **VOL** + button. The "MPAA rating" screen will appear.



5

Repeatedly press the CH ▼ button to highlight a particular MPAA category. (When a category is highlighted, its color changes to blue.) Pressing the CH ▼ button will cycle through the MPAA categories:



| G | General audience (no restrictions). | |
|-------|---|--|
| PG | Parental guidance suggested. | |
| PG-13 | PG-13 (Parents strongly cautioned). | |
| R | R (Restricted. Children under 17 should be accompanied by an adult). | |
| NC-17 | No children under age 17. | |
| X | X (Adults only). | |
| NR | Not rated | |

While a particular category is highlighted, press **VOL** + to activate it.

A blinking letter ("U" or "B") will be displayed. Press **CH** ▲ or **CH** ▼ to select "U" or "B".

Press MENU three times to save the settings and to clear all screens.

Note: The V-Chip will automatically block any category that is "more restrictive." For example, if you block the "PG-13" category, then "R," "NC-17," and "X" will automatically be blocked also.

How to Reset the TV after the V-Chip Blocks a Channel ("Emergency Escape")

If the TV is tuned to a restricted channel, the V-Chip will block it. The screen will go blank and the following message will appear: "Excessive rating."

To resume normal viewing, tune to a different channel using the number buttons. Under certain conditions (depending on the rating of the local TV programs) the V-Chip might lock out all the channels. In this case, use the V-Chip button for an "emergency escape":

Press the V-chip button on the remote control. Enter your PIN number, and press **VOL+** to temporarily disable the V-Chip Lock.

Chapter Five

TROUBLESHOOTING

If the TV seems to have a problem, first try this list of possible problems and solutions. If none of these troubleshooting tips apply, then call your nearest service center.

Identifying Problems

| Problem | Possible Solution |
|---|--|
| Poor picture | Try another channel. Adjust the antenna. Check all wire connections. |
| Poor sound quality. | Try another channel. Adjust the antenna. |
| No picture or sound. | Try another channel. Press the TV/VIDEO button. Make sure the TV is plugged in. Check the antenna connections. |
| No color, wrong colors or tints. | Make sure the program is broadcast in color. Adjust the picture settings. |
| Picture rolls vertically. | Adjust the antenna. Check all wire connections. |
| The TV operates erratically. | Unplug the TV for 30 seconds, then try operating it again. |
| Your remote control does not operate your TV. | Press the "MODE" button to put your remote control in the "TV" mode. |
| The TV won't turn on. | Make sure the wall outlet is working. |

Note: If you watch a still image for a long time, some burning images may be seen on the screen.

Cleaning and Maintaining Your TV

With proper care, your TV unit will give you many years of service. Please follow these guidelines to get the maximum performance from your TV.

Placement

- Do not place the TV near extremely hot, cold, humid or dusty places.
- Do not place the TV near appliances with electric motors that create magnetic fields, such as vacuum cleaners.
- Keep the ventilation openings clear; do not place the TV on a soft surface, such as cloth or paper.
- Place the TV in a vertical position only.

Liquids

• Do not handle liquids near or on the TV. Liquids that spill into it can cause serious damage.

Cabinet

- Never open the cabinet or touch the parts inside.
- Wipe your TV with a clean, dry cloth. Never use water, cleaning fluids, wax, or chemicals.
- Do not put heavy objects on top of the cabinet.

Temperature

 If your TV is suddenly moved from a cold to a warm place, unplug the power cord, and allow at least two hours for moisture that may have formed inside the unit to dry completely.

Using Your TV in Another Country

If you plan to take your TV with you to a foreign country, please be aware of the different television systems that are in use around the world. A TV designed for one system may not work properly with another system due to differences in the TV channel frequencies

Specifications

| Model | ST-54T6 / ST-62T6 | |
|------------------------|---|--|
| Voltage | 100 ~ 240 V ca | |
| Frequency of Operation | 50/60Hz (Mexico: 60Hz) | |
| Power Consumption | 230 Watts / 230 Watts | |
| Dimension | ST-54T6: 1161 x 605 x 1400mm; 45.70 x 23.82 x 55.12 inchs | |
| | ST-62T6: 1319 x 705 x 1529mm; 51.93 x 27.76 x 60.20 inchs | |
| Weight | ST-54T6 : 70 Kg ; 154.32 lbs | |
| | ST-62T6 : 88 Kg ; 194.00 lbs | |